JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY

Vol. 244 Nos. 1 and 2 April 8, 1988

CONTENTS

The electrical double layer at the mercury/solution interface in organic solvents (Review)
Z. Borkowska (Warsaw, Poland) 1

Electron transfer reactions at the interface between two immiscible electrolyte solutions
H.H.J. Girault (Edinburgh, Great Britain) and D.J. Schiffrin (Southampton, Great Britain) 15

Electron transfer between immiscible solutions. The hexacyanoferrate–lutetium biphthalocyanine system
G. Geblewicz and D.J. Schiffrin (Southampton, Great Britain) 27

Statistical analyses of the two-dimensional point pattern of silver monolayer deposition on a single crystal silver electrode
R.G. Barradas (Ottawa, Canada), T.J. VanderNoot (Southampton, Great Britain), W. Obretenov, V. Bostanov and E. Budevski (Sofia, Bulgaria) 39

Standard states and the Frumkin adsorption isotherm for substances at electrode interphases
R. Gonzalez, J. Torrent and F. Sanz (Barcelona, Spain) 53

Application of cyclic voltammetry to the study of diffusion and metalliding processes
F. Lantelme and E. Cherrat (Paris, France) 61

Electrolyte electroreflectance. Easy and reliable flat-band potential measurements
J. Gandia, M. Pujadas and P. Salvador (Madrid, Spain) 69

Ultramicroelectrode sensors and detectors. Considerations of the stability, sensitivity, reproducibility, and mechanism of ion transport in gas phase chromatography and in high performance liquid phase chromatography
R. Brina, S. Pons (Salt Lake City, UT, U.S.A.) and M. Fleischmann (Southampton, Great Britain) 81

Improved electronic equipment for square-wave amperometry
B.G. Cox (Stirling, Great Britain) and W. Jedral (Warsaw, Poland) 91

Phospholipid monolayers of di-oleoyl lecithin at the mercury/water interface
A. Nelson and N. Auffret (Plymouth, Great Britain) 99

Catalytic electrosynthesis of conducting polymers
B. Zinger (Yavne, Israel) 115

The role of oxygen ion diffusion in the electrode reactions of β'' alumina
R.O. Ansell, A. Gilmour and R.J. Cole (Glasgow, Great Britain) 123

The temperature dependence of the double layer parameters of the (111) face of silver
A. Hamelin, L. Doubova, L. Stoicoviciu (Meudon, France) and S. Trasatti (Milan, Italy) 133

Single crystal electrochemistry of rhodium. Anion effects and order/disorder transitions of clean and silver coated Rh (III) surfaces
M. Hourani and A. Wieckowski (Urbana, IL, U.S.A.) 147

Bifunctionalized polypyrrole modified electrodes containing reversible electron donor and acceptor moieties. Examples of electroinduced chemical reactions occurring inside polymer films
A. Deronzier, M. Essakalli and J.-C. Moutet (Saint Martin d'Hères, France) 163

Chemical and electrochemical equilibria and kinetics in aqueous Cr(III)/Cr(II) chloride solutions
G.H. Kelsall, C.I. House and F.P. Guyanga (London, Great Britain) 179

The electro-reduction of the anaesthetic gas isoflurane
R.G. Compton, R.J. Northing, A.M. Waller, G.W.J. Fleet, J.C. Son and B.P. Bashyal (Oxford, Great Britain) 203

Electroanalytical study of the pesticide guthion
J. Hernández Méndez, R. Carabias Martínez and E. Rodríguez Gonzalo (Salamanca, Spain) .. 221

Effect of poly(α-D-glutamic acid) on the polarographic reduction of 3,6-diaminoacridines
S. Fuji, N. Tatsumoto (Oita, Japan) and K. Yamaoka (Hiroshima, Japan) 235

(continued on p. 3 of cover)

Contents (*continued*)

Underpotential deposition of copper and silver on polycrystalline ruthenium electrodes
C. Nguyen Van Huong and M.J. Gonzalez-Tejera (Meudon, France) 249

Underpotential deposition of silver on polyfaceted and electrochemically faceted Pt (100) electrodes. Application of the combined adsorption–desorption–nucleation and growth mechanism
B. Parajón Costa, J. Canullo, D. Vásquez Moll, R.C. Salvarezza, M.C. Giordano and A.J. Arvia (La Plata, Argentina) 261

The electrochemical reactivity of toluene at porous Pt electrodes
J. Zhu, T. Hartung, D. Tegtmeyer, H. Baltruschat and J. Heitbaum (Witten, F.R.G.). 273

Attachment of riboflavin derivatives to electrode surfaces
C.N. Durfor, B.A. Yenser and M.L. Bowers (Waltham, MA, U.S.A.) 287

Short communications

An in situ surface Fourier transform infrared study of complexes of lithium, magnesium, potassium and lanthanum ferrocyanide at platinum and gold electrodes
D.J. Blackwood and S. Pons (Salt Lake City, UT, U.S.A.) 301

On the evaluation of the flatband potential from photocurrent measurements
M.H. Dean, A.R. Newmark and U. Stimming (New York, NY, U.S.A.) 307

Conductivity and capacity of polythiophene films: Impedance study
T.F. Otero and E. de Larreta (San Sebastián, Spain) 311

Preliminary notes

Electrogenerated chemiluminescence. Part 51. The tris(2,2′-bipyrazine) osmium(II) system
C.-W. Lee, J. Ouyang and A.J. Bard (Austin, TX, U.S.A.) 319

Transient charge transport through modified electrodes by EHD impedance
C. Deslouis, C. Gabrielli, M.M. Musiani, B. Tribollet (Paris, France), J.F. Equey and O. Haas (Würenlingen, Switzerland) 325

Photoelectrochemical study of the effect of inhibitor on the passivation of copper in sodium hydroxide aqueous electrolyte
A. Aruchamy, G. Zhou and A. Fujishima (Tokyo, Japan) 333

The microelectrode coupled with a collecting counter electrode
Juntao' Lu and Peifang Liu (Wuhan, People's Republic of China) 339

On the origin of the "unusual splitting" of voltammograms of the Pt (111) electrode
E.K. Krauskopf, L.M. Rice and A. Wieckowski (Urbana, IL, U.S.A.) 347

Comparison of visible transmission spectroscopic and ellipsometric data obtained during the deposition of thin films on electrodes
A.R. Hillman, E.F. Mallen (Bristol, Great Britain) and A. Hamnett (Oxford, Great Britain) 353

Book review 359

Announcements 360

Author index 363

Subject index 364

Erratum 368

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY and BIOELECTROCHEMISTRY AND BIOENERGETICS

Publication schedule for 1988 (please note that Vols. 233–238, belonging to the 1988 subscription, appeared in 1987)

Month	J	F	M	A	M	
J. Electroanal. Chem.	239/1+2 240/1+2	241/1+2 242/1+2	243/1 243/2	244/1+2 245/1+2	246/1 246/2	The publication schedule for further issues will be published later.
Bioelectrochem. Bioenerg.			253/1			